

For Research Use Only

# Coilin Polyclonal antibody

Catalog Number: 10967-1-AP **18 Publications**



## Basic Information

**Catalog Number:**

10967-1-AP

**Size:**

800 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1416

**GenBank Accession Number:**

BC010385

**GeneID (NCBI):**

8161

**UNIPROT ID:**

P38432

**Full Name:**

coilin

**Calculated MW:**

576 aa, 63 kDa

**Observed MW:**

80 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

**Cited Applications:**

WB, IHC, IF, CoIP

**Species Specificity:**

human

**Cited Species:**

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293 cells, human brain tissue, Jurkat cells, K-562 cells

**IP:** HEK-293 cells,

**IHC:** human prostate cancer tissue, human testis tissue

**IF/ICC:** HeLa cells,

## Background Information

The nuclear coiled body (CBs) and nuclear structures known as gems contain high concentrations of the survival motor neurons (SMN) protein complex. CBs and gems often colocalize, and communication between them is mediated by COIL. COIL is a component of the CBS which are involved in the function or assembly/disassembly of nucleoplasmic snRNPs. During mitosis, CBs disassemble, coinciding with a mitotic-specific phosphorylation of p80 coilin, and symmetrical dimethylation of the COIL RG box motif is a molecular switch that determines whether the SMN complex forms gems or becomes incorporated into CBs

## Notable Publications

Author	Pubmed ID	Journal	Application
Andrea Pawellek	28884683	Elife	IF
Yuhong Zhang	34628513	J Mol Med (Berl)	WB,IF
Andrea Pawellek	25281741	J Biol Chem	IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

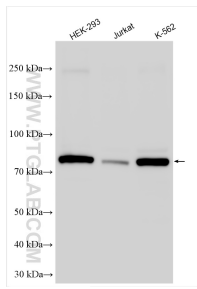
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

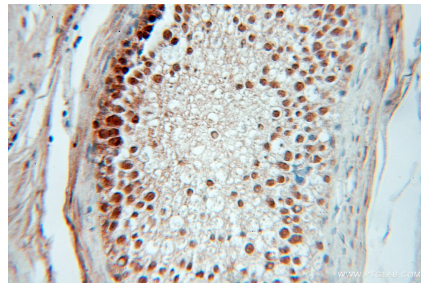
W: [ptgcn.com](http://ptgcn.com)

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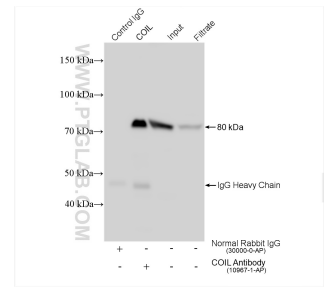
## Selected Validation Data



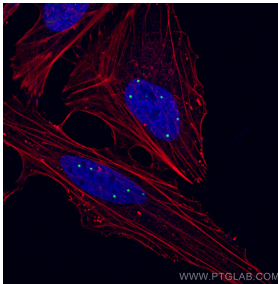
Various lysates were subjected to SDS PAGE followed by western blot with 10967-1-AP (Coilin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



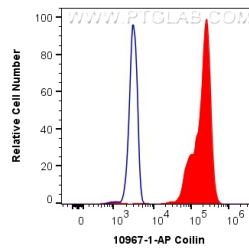
Immunohistochemical analysis of paraffin-embedded human prostate cancer using 10967-1-AP (Coilin antibody) at dilution of 1:100 (under 10x lens).



IP result of anti-Coilin (IP:10967-1-AP, 4ug; Detection:10967-1-AP 1:10000) with HEK-293 cells lysate 1400 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Coilin antibody (10967-1-AP) at dilution of 1:200 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human Coilin (10967-1-AP) and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).